

CLAIMS

1. A nonprecious metal dental casting alloy, particularly for the synthesis of dental prosthetic constructions and model casting bases, substantially comprising

25 – 35	wt%	Cr
2 – 6	wt%	Mo
3 – 12	wt%	W
0.8 – 1.5	wt%	Si
up to 0.3	wt%	Mn
0.1 – 0.35	wt%	N
<0.1	wt%	Ni
0.2 – 1.5	wt%	Ta

and manufacturing impurities of <0,1 wt% in each case,

remainder cobalt,

the content of tungsten being always greater than the content of molybdenum.

2. An alloy as defined in claim 1, characterized in that the alloy is substantially free from rare-earth elements.
3. An alloy as defined in claim 1 or claim 2, characterized in that the alloy is substantially free from the element carbon.
4. The use of an alloy as defined in any one of claims 1 to 3 for the production of prosthetic constructions to be veneered with tooth-colored ceramic bodies.
5. The use of an alloy as defined in any one of claims 1 to 3 for the production of model casting bases.
6. A process for the production of an alloy as defined in any one of claims 1 to 3, characterized in that extrusion casting is used for said production.